## **GHS Classification**

ID555

## Benzothiazole

Date Classified: Oct. 23, 2006 (Environmental Hazards: Mar. 31, 2006)

CAS 95-16-9 Physical Hazards

Reference Manual: GHS Classification Manual (Feb. 10, 2006)

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Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Not applicable	-	_	_	Containing no chemical groups with explosive properties
2 Flammable gases	Not applicable	-	_	-	Classified as "liquid" according to GHS definition
3 Flammable aerosols	Not applicable	-	_	-	Not aerosol products
4 Oxidizing gases	Not applicable	_	-	ı	Classified as "liquid" according to GHS definition
5 Gases under pressure	Not applicable	-	-	ı	Classified as "liquid" according to GHS definition
6 Flammable liquids	Not classified	_	-	ı	The flash point is 107degC (c.c.) (IUCLID (2000))
7 Flammable solids	Not applicable	_	-	-	Classified as "liquid" according to GHS definition
8 Self-reactive substances and mixtures	Not applicable	-	-	1	Containing no chemical groups with explosive or self-reactive properties
9 Pyrophoric liquids	Classification not possible	_	-	ı	No data available
10 Pyrophoric solids	Not applicable	-	-	ı	Classified as "liquid" according to GHS definition
11 Self-heating substances and mixtures	Classification not possible	_	-	_	Test methods applicable to liquid substances are not available.
12 Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	I	Containing no metalls or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)
13 Oxidizing liquids	Not applicable	_	-	ı	Organic compounds containing no oxygen, fluorine or chlorine
14 Oxidizing solids	Not applicable	_	-	_	Classified as "liquid" according to GHS definition
15 Organic peroxides	Not applicable	_	-	ı	Organic compounds containing no "-O-O-" structure
16 Corrosive to metals	Classification not possible	-	_	-	No data available

## **Health Hazards**

Haza	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Category 4	Exclamation mark	Warning	Harmful if swallowed	Based on the rat LD50 (oral route) value of 380mg/kg representing the lower of the two testing data, 492mg/kg and 380mg/kg (PATTY (4th, 2000)).
1	Acute toxicity (dermal)	Category 2	Skull and crossbones	Danger	Fatal in contact with skin	Based on the rabbit LD50 (dermal route) value of 126mg/kg representing the lowest of the testing data, 630-1,000mg/kg and 126-200mg/kg (PATTY (4th, 2000)).
1	Acute toxicity (inhalation: gas)	Not applicable	_	_	_	Due to the fact that the substance is "liquid" according to the GHS definition and inhalation of its gas is not expected.
1	Acute toxicity (inhalation:	Classification not possible	_	_	_	Insufficient data available
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	_	_	_	No data available
2		Category 3	_	Warning	Causes mild skin irritation	Based on the description in the report on rabbit skin irritation tests (exposure duration unknown) (PATTY (4th, 2000)): "Slightly irritating."
3	Serious eye damage / eye irritation	Category 2B	_	Warning	Causes eye irritation	Based on the description in the report on rabbit eye irritation tests (PATTY (4th, 2000)): "Slightly irritating."
4	,	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization) — (Skin sensitization) —	Respiratory sensitization: No data available Skin sensitization: No data available
5	Germ cell mutagenicity	Classification not possible	-	-	-	Based on the absence of data on in vivo tests and no positive data on in vitro mutagenicity tests (several indices), described in NTP DB (Access on June 2006) and PATTY (4th, 2000).
6	Carcinogenicity	Classification not possible	-	-	-	No data available
7	Toxic to reproduction	Classification not possible	-	-	-	No data available
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	_	_	_	Insufficient data available
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	_	_	_	No data available
10	Aspiration hazard	Classification not possible	_	_	_	No data available

## **Environmental Hazards**

Hazard class Classification symbol signal word hazard statement Rational for the classification
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11 Hazardous to the aquatic environment (acute)	Category 3	-	-	Harmful to aquatic life	It was classified into Category 3 from 48 hours EC50=19mg/L of the crustacea (Daphnia magna) (MOE eco-toxicity tests of chemicals, 1997).
11 Hazardous to the aquatic environment (chronic)	Category 3	-			Although acute toxicity was Category 3 and the potential was low (BCF=7.5(Existing Chemical Safety Inspections Data)), since there was no rapidly degrading (the decomposition by BOD: 0%(Existing Chemical Safety Inspections Data)), it was classified into Category 3.